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ATTORNEY DOCKET NO	CONFIRMATION NO	

FIRST NAMED INVENTOR APPLICATION NO. FILING DATE ATTORNEY DOCKET NO. Steven O. Smith 2949 10/757,115 01/14/2004 24317/82951 **EXAMINER** 01/21/2005 Philip W. Woo NGUYEN, HIEP SIDLEY AUSTIN BROWN & WOOD LLP PAPER NUMBER ART UNIT **Suite 5000** 555 California Street 2816

DATE MAILED: 01/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
	055	10/757,115	SMITH ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Hiep Nguyen	2816	
Period f	The MAILING DATE of this communication apports or Reply	pears on the cover sheet with the c	orrespondence address	
THE - Exte after - If the - If NO - Failt Any	MORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply D period for reply is specified above, the maximum statutory period varie to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on 14 Ja	anuary 2004.		
2a) <u></u>	☐ This action is FINAL . 2b) ☐ This action is non-final.			
3)[3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Disposit	ion of Claims		•	
4)⊠	☑ Claim(s) <u>1-20</u> is/are pending in the application.			
	4a) Of the above claim(s) is/are withdrawn from consideration.			
5)⊠	5)⊠ Claim(s) <u>10-16</u> is/are allowed.			
6)⊠	6)⊠ Claim(s) <u>1 and 17</u> is/are rejected. 7)⊠ Claim(s) <u>2-9 and 18-20</u> is/are objected to.			
7)🖂				
8)□	Claim(s) are subject to restriction and/or	r election requirement.		
Applicati	ion Papers			
9)[9) The specification is objected to by the Examiner.			
10)	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.			
	Applicant may not request that any objection to the			
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).	
11)	The oath or declaration is objected to by the Ex			
Priority ι	ınder 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)	a) ☐ All b) ☐ Some * c) ☐ None of:			
	1. Certified copies of the priority documents have been received.			
	2. Certified copies of the priority documents have been received in Application No			
	3. Copies of the certified copies of the prior		d in this National Stage	
* 0	application from the International Bureau			
3	See the attached detailed Office action for a list	of the certified copies not received	J. •	
144aab====	#/a\			
Attachmen 1) 🔯 Notic	t(s) e of References Cited (PTO-892)	, n —		
2) Notic	e of Praftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Dat		
3) 🔲 Inforr	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal Pa		
Pape	r No(s)/Mail Date	6) 🔲 Other:		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Memida (USP. 6,137,360).

Regarding claim 1, figure 13 of Memida shows a buffer comprising:

an input terminal (IN1) operable to receive an input signal;

an output terminal (OUT) at which an output signal for the buffer circuit is provided;

a first transistor (P101) having a gate, a source, and a drain, wherein the source of the first transistor is connected to the input terminal (IN1);

a second transistor (P102) having a gate, a source, and a drain, wherein the gate of the second transistor is connected to its drain and to the gate of the first transistor;

a third transistor (P131) having a gate, a source, and a drain, wherein the gate of the third transistor is connected to the drain of the first transistor (P101), wherein the source of the third transistor is connected to the output terminal and to the source of the second transistor (P102) and means for balancing the first transistor and the second transistor (feedback transistor N112) when a change occurs in the input signal appearing at the input terminal (col. 1, lines 64-76, col.3 lines 1-31).

Regarding claim 17, figure 13 of Memida shows a buffer circuit comprising:

an input terminal (IN1) operable to receive an input signal;

an output terminal (OUT) at which an output signal for the buffer circuit is provided;

at most three transistors (P101, P102, P131) operable to provide signal currents, wherein two of the three transistors are matched (N111, N112); and

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means for feeding back (N112) the output signal so that the two matched transistors (P101, P102) are balanced in response to a change in the input signal appearing at the input terminal (col. 1, lines 64-76, col.3 lines 1-31).

Allowable Subject Matter

Claims 2-9 and 18-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 10-16 are allowed.

Claims 2-9 and 18-20 are objected to because the prior art (USP. 6,137,360) fails to teach or fairly suggest a buffer comprising two current sources (fourth and fifth transistors) connected to the first and second transistors as called for in claims 2 and 7; a capacitor connected to the gate of the third transistor as called for in claim 9 and first and second current sources as called for in claim 18.

Claims 10-16 are allowed because the prior art (USP. 6,137,360) fails to teach or fairly suggest a buffer comprising first to sixth transistors as called for in claim 10.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hiep Nguyen whose telephone number is (571) 272-1752. The examiner can normally be reached on Monday to Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hiep Nguyen

01-13-05

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